INDEX TO VOLUME XXXIX, 1945

INDEX TO VOLUME XXXIX, 1945

A

A.A.V.S.O., Annual Meeting, 1944, *D. W. Rosebrugh*, 172; Report of Solar Division, June 1945, *D. W. Rosebrugh*, 261.

Absorbing Material within the Galaxy and its Influence on Estimates of Galactic Dimensions, The Nature of, *C. S. Beals*, 329.

Achelis, Elisabeth, One World Calendar for One World, 201.

Alcock, F. J., Logan's Fault, 213.

Algol, Observed and Predicted Minima, 409.

Aluminizing Mirrors for Amateurs, 231.

Annual Meeting, Royal Astronomical Society of Canada, 89.

Apgar, Charles E., Jupiter and Satellites I, II, III and IV during 1945, 14.

Apparition of Jupiter, The 1941-2, *Walter H. Haas*, 377.

Apparition of Mars, The 1941-2, *Walter H. Haas*, 141, 177.

"Arcturus," *J. Edgar Guimont*, 217; Typographical Errors in the Article, 279.

Armstrong, Olive A., The Eclipse of July 9—Observations by Winnipeg Members, 373.

Astronomy Always Useful, 68.

Astronomy—and the Atomic Bomb, What Use, 411.

Astronomy, An Introduction to the Quantum Theory and its Bearing on, *A. F. Stevenson*, 121.

Astronomy, Physics and Philosophy, *A. Vibert Douglas*, 73.

At-Home, Annual, Royal Astronomical Society of Canada, 117.

Atomic Bomb, What Use Astronomy—and the, 411.

B

Bands Travelling across the Clouds, 32.

Barnholth, W. N., (see Notes and Queries).

Barrow, Isaac, and Isaac Newton, 231.

Beals, C. S., The Nature of Absorbing Material within the Galaxy and its Influence on Estimates of Galactic Dimensions, 329.

Brydon, H. Boyd, A Possible Origin of Comets, 392.

C

Calendar for One World, One World, *Elisabeth Achelis*, 201.

Calendar, Mayan—The "Venus Year," 323.

Calendar, The Sequence of Days in the, *C. A. Chant*, 138.

Campbell, J. W., Eclipse Predictions, (with H. E. Johns), 347.

Chant, C. A., The Sequence of Days in the Calendar, 138, (see also Notes and Queries).

Chatley, Herbert, A Political Star Chart of the Twelfth Century, 280.

Clusters, The Dimensions of the Galaxy as Defined by the System of Globular *Helen Sawyer Hogg*, 289.

Comets, A Possible Origin of, *H. Boyd Brydon*, 392.

Connor, A. J., July Weather Along the Path of Totality in Canada—Solar Eclipse July 9, 1945, 42.

Cornwall-Massena Earthquake September 5, 1944, The, *Ernest A. Hodgson*, 5.

D

Dimensions of the Galaxy as Defined by the System of Globular Clusters, The, *Helen Sawyer Hogg*, 289.

Dimensions, The Nature of Absorbing Material within the Galaxy and its Influence on Estimates of Galactic, *C. S. Beals*, 329.

Douglas, A. Vibert, Arthur Stanley Eddington (obituary), 1; Astronomy, Physics and Philosophy, 73.

E

Earthquake, Personal Experience of a Nearby, 30.
Earthquake September 5, 1944, The Cornwall-Massena, *Ernest A. Hodgson*, 5.
Eclipse of the Moon, December 18, 1945, 409.
Eclipse, July 9, 1945, July Weather along the Path of Totality in Canada—Solar, *A. J. Connor*, 42.
Eclipse, July 9, 1945, in Western Canada, The Total, *K. O. Wright*, 161.
Eclipse Observers, Accommodation in Saskatchewan for, 196.
Eclipse of the Sun, Programme of Observations during a Total, 170.
Eclipse Plans for July, 1945, Russian, *G. Fesenkov*, 51.
Eclipse Predictions, *J. W. Campbell* and *H. E. Johns*, 347.
Eclipse Reports: Montreal, *A. V. Madge*, 257, 322; Quebec, *Paul H. Nadeau*, 255; Rice Lake, *W. H. Stilwell*, 258; Timmins, *W. Jones*, 259; Winnipeg, *Olive A. Armstrong*, 373; Winnipegosis, *G. P. Morse*, 256; Yarmouth, *G. Radcliffe Parry*, 260.
Eclipse in Wolseley, Saskatchewan, Total, *Roy K. Marshall*, 241.
Eddington, Arthur Stanley (obituary), *A. Vibert Douglas*, 1.
Errors of Satellites and their Shadows, Jovian Central Meridian Transit Time, *Hugh M. Johnson*, 17.

F

Fault, Logan's, *F. J. Alcock*, 213.
Fesenkov, G., Russian Eclipse Plans for July 1945, 51.
Franklin Medal to Dr. Shapley, Award of the, 158.

G

Galaxy and its Influence on Estimates of Galactic Dimensions, The Nature of Absorbing Material within the, *C. S. Beals*, 329.
Galaxy as Defined by the System of Globular Clusters, The Dimensions of the, *Helen Sawyer Hogg*, 289.
Gnomon of Toscanelli, The, 376.
Guimont, J. Edgar, "Arcturus," 217.

H

Haas, Walter H., The 1941-2 Apparition of Jupiter, 377; The 1941-2 Apparition of Mars, 141, 177.
Heard, J. F. (see Reviews of Publications).
Her Majesty's Magnetical and Meteorological Observatory, Toronto, *A. D. Thiessen*, 221, 267, 311, 355, 394.
Hodgson, Ernest A., The Cornwall-Massena Earthquake, September 5, 1944, 5.
Hogg, F. S. (see Notes and Queries and Reviews of Publications).
Hogg, Helen Sawyer, The Dimensions of the Galaxy as Defined by the System of Globular Clusters, 289.
Holland, News from, 410.

I

Important Considerations in Making Reflecting Telescopes, *Frank Vaughn*, 53.
Introduction to the Quantum Theory and its Bearing on Astronomy, An, *A. F. Stevenson*, 121.

J

Johns, H. E., Eclipse Predictions, (with J. W. Campbell), 347.
Johnson, Hugh M., Jovian Central

Meridian Transit Time Errors of Satellites and their Shadows, 17.
Jones, W., Magnetic Observations near Timmins, Ont., 259.
Journals, Request for February, 196.
Jovian Central Meridian Transit Time Errors of Satellites and their Shadows, *Hugh M. Johnson*, 17.
July Weather Along the Path of Totality in Canada—Solar Eclipse July 9, 1945, *A. J. Connor*, 42.
Jupiter, The 1941-2 Apparition of, *Walter H. Hass*, 377.
Jupiter and Satellites I, I, III and IV during 1945, *Charles E. Apgar*, 14.

L

Lectures before the Society:
EDMONTON CENTRE—Cosmic Speculations Old and New, *J. M. MacEachran*, 159; Changes in the Universe, *C. G. Wates*, 160; Telescope Faults, *E. H. Gowan*, 198; The Spectroscope, *Sheldon Gibson*, 284; Star Temperatures, *R. J. Lang*, 285; The Life and Work of Sir Arthur Eddington, *E. S. Keeping*, 286; Planetary Atmospheres, *S. G. Deane*, 287; Solar Eclipse of July 1945, *H. E. Johns*, 287.
MONTREAL CENTRE—The Aurora and Geomagnetism, *C. W. Gartlein*, 117; Earthquakes, *Ernest A. Hodgson* 119; The Universe as a Whole, *Henry F. Hall*, 120; The Solar System, *E. Russell Paterson*, 120; The Galactic Systems, *Francis P. Morgan*, 120; Meteorites and the Age of the Solar System, *F. A. Paneth*, 237; The Life and Work of Sir Arthur Eddington, *A. H. S. Gillson*, 238; The Constellations, *F. DeKinder*, 239; Eclipses, *G. Harper Hall*, 239; Tools of the Astronomer, *W. Bruce Ross*, 240; Relativity, *W. F. Oliver*, 414; L'astronomie à l'école des grands écrivains. *Frère Robert*, 414.
TORONTO CENTRE—Telescopes the World Over, *Edna M. Fuller*, 236; Recent Astronomical Progress as Reported to the American Astronomical Society, *Helen Sawyer Hogg*, 326.
VANCOUVER CENTRE — The Time Scale of the Universe, *H. D. Smith*, 198; The Magic of the Spectrum, *Walter J. Lind*, 199; Cosmic Rays, *R. E. G. Langton*, 199; The Pleiades, Cluster, *J. A. Pearce*, 282; Electronics in Aviation, *T. W. Hall*, 282; Photography Applied to Astronomy, *Norman Barton*, 283; An Illustrated Discussion of Astronomical Spectra, *William Petrie*, 283.
VICTORIA CENTRE — Fingerprints—The Development of Numbers, *R. T. D. Wallace*, 70; The Royal Roads Naval College Planetarium, *Lieut.-Commander Genge*, 71; The Pleiades, *J. A. Pearce*, 72.
WINDSOR CENTRE—Time, *C. H. Montrose*, 327; Additional Aids to the Astronomer, *Russell Warwick*, 327; Solar Eruptions, *A. T. Knight*, 327; World Calendar, *Elisabeth Achelis*, 328; Inside the Stars, *W. Almon Hare*, 328.
Logan's Fault, *F. J. Alcock*, 213.

M

McDonald, D. J., Periodicity in Population Fluctuations, 59.
Madge, A. V., Partial Eclipse of the Sun, July 9, 1945, Observed at Montreal, 257.
Magnetic Observations near Timmins, Ont., *W. Jones*, 259.
Magnetical and Meteorological Observatory, Toronto, Her Majesty's,

A. D. Thiessen, 221, 267, 311, 355, 394.
Magnitude, Calculation of Absolute, 197.
Maps, A New Set of Sky, 68.
Mars, The 1941-2 Apparition of, *Walter H. Haas*, 141, 177.
Marshall, Roy K., Total Eclipse in Wolseley, Saskatchewan, 241.
Mayan Calendar—The "Venus Year," The, 323.
Meaning of Science, The, 263.
Meeting of the A.A.V.S.O., Annual, 1944, *David W. Rosebrugh*, 172.
Members Unattached to Centres, Elected February 16, 1945, 114.
Meteor in New Zealand, A Brilliant, 232.
Meteors Observed in Montreal, Perseid, 281.
Meteorological Observatory, Toronto, Her Majesty's Magnetical and, *A. D. Thiessen*, 221, 267, 311, 355, 394.
Mirrors for Amateurs, Aluminizing, 231.
Montreal, Eclipse of Sun of July 9, 1945, at, 322.
July 9, 1945, Observed at, *A. V. Madge*, 257.
Montreal, Perseid Meteors Observed in, 281.
Moon and the Weather, The, 324.
Moon Rising in the East, A "Sickle," 31.
Morgan, F. P., Tycho's Nova, 1572, 370.
Morse, G. P., Observations at Winnipegosis, 256.
Morton, The Right Reverend T. W., Death of, 279.

N

Nadeau, Paul H., Observations of the Eclipse of July 9, 1945, at Quebec, at the Observatory of the Quebec Centre, 255.
Natural Phenomena, Ultimate Hypotheses of, 412.
Nature of Absorbing Material Within the Galaxy and its Influence on Estimates of Galactic Dimensions, The, *C. S. Beals*, 329.
New Zealand, A Brilliant Meteor in, 232.
Newton, Isaac, Isaac Barrow and, 231.
Newtonians, Long Focus, 376.
Newtonians, Some Advantages of Long Focus, *E. K. White*, 307.
Northcott, Ruth J., (see Notes and Queries).
Norris-Elye, L. T. S., (see Notes and Queries).
Notes and Queries, 29, 68, 115, 158, 196, 231, 279, 322, 376, 000.
Nova, 1572, Tycho's, *F. P. Morgan*, 370.

O

Obituary: Eddington, Arthur Stanley, 1; Morton, The Right Reverend T. W., 279.
Observations, Solar, by Amateurs, 158.
One World Calendar for One World, *Elisabeth Achelis*, 201.

P

Parry, G. Radcliffe, The Eclipse at Port Maitland, Yarmouth, Nova Scotia, 260.
Periodicity in Population Fluctuations, *D. J. McDonald*, 59.
Perseid Meteors Observed in Montreal, 281.
Personals, 235.
Philosophy, Astronomy, Physics and, *A. Vibert Douglas*, 73.
Physics and Philosophy, Astronomy, *A. Vibert Douglas*, 73.
Planetaria, Staff Changes in American, 116.

Political Star Chart of the Twelfth Century, A, *W. Carl Rufus*, 33, 280.
Population Fluctuations, Periodicity in, *D. J. McDonald*, 59.
Possible Origin of Comets, A, *H. Boyd Brydon*, 392.
Prisoner of War Liberated, 322.
Programme of Observations during a Total Eclipse of the Sun, 170.

Q

Quantum Theory and its Bearing on Astronomy, An Introduction to the, *A. F. Stevenson*, 121.
Quebec Centre, Observations of the Eclipse of July 9, 1945, at the Observatory of the, *Paul H. Nadeau*, 255.

R

Reader, A Great, 235.
Request for February JOURNALS, 196.
Reviews of Publications:
Brown, Earle B., Optical Instruments, *R.K.Y.*, 320.
H.M. Stationery Office, compiled by by E. Chappell, Five-Figure Logarithm Tables, *R.K.Y.*, 193.
Holmboe, Jörgen, George E. Forsythe and William Gustin, Dynamic Meteorology, *J. F. H.*, 375.
Mizwa, Stephen P., Nicholas Copernicus — A Tribute of Nations, *C.A.C.*, 194.
Russell, Henry Norris, Charlotte E. Moore and Dorothy W. Weeks, The Ark Spectrum of Iron (Fe I), *F.S.H.*, 320.
Stowell, James A., Practical Marine Navigation, *F.S.H.*, 193.
Robb, George, (see Notes and Queries).
Rosebrugh, David W., Annual Meeting of the A.A.V.S.O., 1944, 172; June, 1945, Report of Solar Division of A.A.V.S.O., 261; (see also Notes and Queries).
Royal Astronomical Society of Canada, Annual At-Home, 117; Annual Meeting, 89; Members Unattached to Centres, Elected February 16, 1945, 114.
Royal Canadian Institute, Dr. Shapley at the, 116.
Rufus, W. Carl, A Political Star Chart of the Twelfth Century, 33, 280.
Russian Eclipse Plans for July, 1945, *G. Fesenkov*, 51.

S

Satellites and their Shadows, Jovian Central Meridian Transit Time Errors of, *Hugh M. Johnson*, 17.
Satellites I, II, III and IV during 1945, Jupiter and, *Charles E. Apgar*, 14.
Science, The Meaning of, 263.
Science, The Two Aspects of, *Alfred Stiernotte*, 186.
Sequence of Days in the Calendar, The, *C. A. Chant*, 138.
Shapley, Harlow, at the Royal Canadian Institute, 116; Award of the Franklin Medal to, 158.
Sky Maps, A New Set of, 68.
Snowbound, 116.
Solar Division of A.A.V.S.O., June, 1945, Report of, *D. W. Rosebrugh*, 261.
Solar Eclipse July 9, 1945, *see* Eclipse.
Solar Observations by Amateurs, 158.
Some Advantages of Long Focus Newtonians, *E. K. White*, 307.
Star Chart of the Twelfth Century, A Political, *W. Carl Rufus*, 33, 280.
Stevenson, A. F., An Introduction to the Quantum Theory and its Bearing on Astronomy, 121.
Stiernotte, Alfred, The Two Aspects of Science, 186.
Stilwell, W. H., Note on the Eclipse of July 9, 1945, 258.
Strange Phenomenon in the Sky, 115.

T

Telescope of the Victoria Centre of the Royal Astronomical Society of Canada, The Wray, *K. O. Wright*, 65.

Telescopes, Important Considerations in Making Reflecting, *Frank Vaughn*, 53.

Thiessen, A. D., Her Majesty's Magnetical and Meteorological Observatory, Toronto, 221, 267, 311, 355, 394.

Timmins, Ont., Magnetic Observations Near, *W. Jones*, 259.

Toscanelli, The Gnomon of, 376.

Total Eclipse of 1945, July 9 in Western Canada, The, *K. O. Wright*, 161.

Total Eclipse in Wolseley, Saskatchewan, *Roy K. Marshall*, 241.

Transit Time Errors of Satellites and their Shadows, Jovian Central Meridian, *Hugh M. Johnson*, 17.

Two Aspects of Science, The, *Alfred Stiernotte*, 186.

Tycho's Nova, 1572, *F. P. Morgan*, 370.

V

Van Biesbroeck, G. A., Retirement of, 234.

Vaughn, Frank, Important Considerations in Making Reflecting Telescopes, 53.

Venus, The Bright Planet, 32.

Victoria Centre of the Royal Astronomical Society of Canada, The Wray Telescope of the, *K. O. Wright*, 65.

W

Weather Along the Path of Totality in Canada—Solar Eclipse July 9, 1945. July, *A. J. Connor*, 42.

Weather, The Moon and the, 324.

White, E. K., Some Advantages of Long Focus Newtonians, 307.

Winnipeg Members, The Eclipse of July 9—Observations by, *Olive A. Armstrong*, 373.

Winnipegosis, Observations at, *G. P. Morse*, 256.

Wolseley, Saskatchewan, Total Eclipse in, *Roy K. Marshall*, 241.

World Calendar for One World, One, *Elisabeth Achelis*, 201.

Wray Telescope of the Victoria Centre of the Royal Astronomical Society of Canada, The, *K. O. Wright*, 65.

Wright, K. O., The Total Eclipse of 1945, July 9 in Western Canada, 161; The Wray Telescope of the Victoria Centre of the Royal Astronomical Society of Canada, 65.

Y

Yarmouth, Nova Scotia, The Eclipse at Port Maitland, *G. Radcliffe Parry*, 260.

Year, The Length of the, 29.

Young, R. K., (see Reviews of Publications).